



NORTH AMERICAN DEVELOPMENT BANK

PROJECT CLOSEOUT FACT SHEET

Project:	Marathon Water Supply & Sewer Service Corporation Water and Wastewater System Improvements		
Location:	Marathon, Texas	Certification Date:	June 20, 2003
Type:	Water and wastewater	Operation Startup:	September 3, 2006
Population Benefitted:	660	Closeout Date:	August 2, 2021

Pre-project Conditions

The Marathon Water Supply & Sewer Service Corporation (MWSC) draws its water supply from the Marathon aquifer through two wells located near the town. This supply was sufficient to meet the needs of the community, but the water distribution system needed to be expanded to provide service to new users. In addition, 36 residences were not connected to the sewer system, and some of them were discharging their wastewater into cesspools or latrines. These on-site disposal systems pose a potentially serious health and environmental risk to the groundwater supply if they are not properly operated and maintained. With respect to wastewater treatment, the pond-based wastewater treatment plant (WWTP) was built in 1971 with the capacity to treat 28,000 gallons per day (gpd). In 2001, the plant was operating beyond its capacity, with average monthly flows of 36,000 gpd and a daily peak flow of 115,000 gpd, resulting in overflows in its final treatment pond.

Project Objective

Expand the water distribution and wastewater collection systems to ensure 100% service coverage, as well as improve and expand the wastewater treatment plant to ensure proper treatment in compliance with state regulations, thus reducing potential health and environmental risks for area residents.

Project Scope

The project was divided into two phases. The first phase consisted of expanding the WWTP to 100,000 gpd and bringing it into compliance with state regulations. The second phase included expanding the plant to 200,000 gpd and changing final treatment process from effluent evaporation to effluent irrigation, as well as connecting 19 homes to the water distribution system and 36 homes to the sewer system.



Project Results

Outputs	Indicator	Target in 2003 (at certification)	Actual (2007)
Drinking Water System			
Distribution lines installed	miles	1.65	1.65
New residential hookups installed	number	19	19
Wastewater System			
New or improved treatment capacity	million gallons per day (mgd)	0.172	0.172
Sewer lines installed	miles	2.02	2.02
New residential connections installed	number	36	36

The water and sewer pipeline that the sponsor reported installed was less than projected at certification and the Bank could not confirm whether the household connections were installed as part of the project or by the homeowner; nevertheless, the overall goal of the project to increase access to water and sewer services in previously unserved areas was achieved, and the homes are connected to the water and wastewater system.

Outcomes	Indicator	Target in 2003 (at certification)	Actual (2007)
Increased access to drinking water services	number of homes	19	19
Increased access to wastewater collection services	number of homes	36	36
Additional treated wastewater	mgd	0.012	0.012

Significant Contribution of the Project

Improvements to the WWTP eliminated discharges of inadequately treated wastewater to the Beakley Draw, while eliminating the use of onsite systems protects the local aquifer, which is sole water source for the community.

Project Financing (USD)

Sources of Funding	Estimated at certification	Actual Amount
NADBank BEIF construction assistance grant*	\$ 1,229,150	\$ 1,363,772
NADBank BEIF transition assistance grant**	219,410	-
NADBank loan	210,000	-
Other sources***	315,415	-
Total	\$ 1,973,975	\$ 1,363,772

* Border Environment Infrastructure Fund (BEIF) funded by the U.S. Environmental Protection Agency (EPA) and administered by NADBank.

** BEIF transition assistance is used to help pay system debt associated with the project, so that user fees can be raised gradually to the level required to make the system self-sustaining.

*** Other sources included funding from MWSC and a grant from the Texas Community Development Program (TCDP) administered by the Office of Rural Community Affairs (ORCA), neither of which ended up being used.